



Unified Migration Data Analytical System

EMN Georgia and EMN Estonia Joint Conference

'Advancing Data-Driven Decision-Making in Migration Management'

Teona Mchedlidze

Analyst







Home

Niko Nikuradze

Secretary for Data Collection and Processing













საქართველოსთვის The European Union for Georgia





Justice of

Georgia



PUBLIC SERVICE

/FLOPMENT AGENC

ევროკავშირი

საქართველოსთვის

European Union for Georgia

Home Affairs

"Data are the lifeblood of decision-making. The importance of quality, accessible, disaggregated, reliable and timely data to inform policies, action and public opinion is well recognized and highlighted in multiple international frameworks."

- (IOM, Migration Data Strategy, 2021)





Data-Driven Decision-Making

in General

- Data are unstructured facts that have no context and no content, and represent the values of variables, e.g.: male, 57, lawyer.
- **Information** is a set of data in context, **e.g.**: the number of employees of an organization by gender, age and position.
- **Knowledge** is a structured information that is used to answer certain questions, **e.g.**: 60% of the lawyers employed in the organization are over 30 and 70% of them are female.







თვის ^{orgia} Home Affairs









Purpose / Benefits of DDDM

Purpose of DDDM

Data-driven decision-making (DDDM) allows making decisions based on data as opposed to *intuition*, observation, or guesswork.

✓ Objective

✓ Measurable

✓ Clear







საქართველოსთვის he European Union for Georgia

Home Affairs





Purpose / Benefits of DDDM

Benefits of DDDM

 Anticipation and planning: using data in the design of policies and subsequent action; anticipation of possible policy change and forecasting of needs

• Evaluation and monitoring: the use of data in measuring impact, auditing decisions and monitoring performance

7







საქართველოსთვის The European Union for Georgia

Home Affairs





Elements of DDDM

Common matters

Data

- Distributed among different state agencies
 - Each agency collects and processes data within its own scope of operation
 - However, for purpose broader statistics, this data owned by different agencies is usually not inter-linked
- Unstandardized
 - There is no common standard for the collection of data fields mandatory for all migration related agencies
- Data quality







საქართველოსთვის The European Union for Georgia

Home Affairs





Elements of DDDM

Stakeholder Management

- Agencies united around the same idea
 - $_{\odot}\,$ Migration data should be collected and processed in coordination
- CENTRAL body / group

 responsible for administration and coordination
- Legal Framework
 - $_{\odot}\,$ Based on higher legislative level
- Practical coordination
 - $\circ~$ MoUs among the stakeholders







Home Affairs













საქართველოსთვის The European Union for Georgia

















საქართველოსთვის The European Union for Georgia



12











Funded by the European Union

UMAS – Georgian Solution

Niko Nikuradze



Introduction

- Migration data is distributed in operational databases of several institutions
- Each institution runs its own statistics
- However, institutions need:
 - access to the statistics of other institutions and
 - statistics based on data that results from integration of several sources (crossinstitutional reports)







Home Affairs





Project UMAS

- In 2014, upon preliminary analysis and further consulting the PDPI, it was agreed to collect the distributed data for analytical purposes in a single space
- The name of this place is Unified Migration Data Analytical System (UMAS)
- The first version of UMAS went into operation in 2018 (5 Data Sources)
- UMAS is continuously being upgraded and integrates different data sources







ევროკავშირი საქართველოსთვის The European Union for Georgia







Data Processing Environment

- Big Data Infrastructure currently, structured data is processed, although technology allows us to process unstructured data (social-media, etc.)
- Data flow automatization: less human involvement, reducing maintenance costs and probability of errors
- Report Delivery Platform (Tableau)
- Data On Premise







ეკლიკიკელოსთვის საქართველოსთვის The European Union for Georgia

Home Affairs





Data Quality

- Data quality can only be improved within the sources
- UMAS can provide with recommendations
- The main source of recommendations are analytical reports and data profiling results
- Check Reports a set of reports that are periodically checked for matches
- Helps identify changes in business rules









17





Stakeholder Management

- Business and Technical Owners of Data Sources clarification of questions regarding business rules and technical issues
- Users of analytical reports
- UMAS Working Group Periodical meetings to discuss the maintenance and development of the UMAS







Home Affairs





UMAS and DDDM

- The UMAS end product is set of analytical reports
- The UMAS generates periodically updated standard and ad hoc reports
- The information obtained from the reports produces new questions and new reports







Home Affairs





Contact:

Niko Nikuradze

Teona Mchedlidze

Secretariat of the State Commission on Migration Issues

Public Service Development Agency Ministry of Justice of Georgia









საქართველოსთვის The European Union for Georgia

